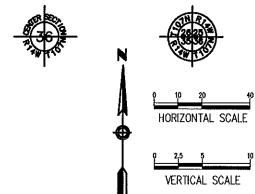
CONVENTIONAL SIGNS AND ABBREVIATIONS

CORPORATE LIMITS	
SECTION LINE	
OTCHT OF LANG AND ANTATES	
RIGHT OF WAY LINE (STATE) PROPERTY LINE (STREET)	
PRUPERTY LINE (STREET)	
ADDITION LINE	
SURVEY LINE CENTER LINE	
CENTER LINE	
WIRE FENCE	x
STONE WALL OR FENCE	2777.272
HEDGE	202000
GUARD RAIL. CREEK OR RIVER	
CREEK UK KIVEK	
DRY RUN	
RAILROAD	######################################
RAILROAD RIGHT OF WAY LINE	
CURB & GUTTER INP.	
CIDENALK IND	
SIDEWALK INP. SANITARY SEWER INP.	
SHILLIAKI SEWEK INC.	
STORM SEWER INP.	
WATERMAIN, GATEVALVE & BOX INP. ELECTRIC UNDERGROUND INP.	
ELECTRIC UNDERGROUND INP.	
TELEPHONE UNDERGROUND INP.	
STEAM MAIN INP.	-
GAS MAIN INP.	
CURB INP.	
HYDRANT INP.	0
TELEBUGUE DOVED DOLES	-ŏ-
TELEPHONE, POWER POLES	
LIGHT POLES	宁
TRAFFIC SIGNAL	- <u>d</u> a
FIRE ALARM BOX	68
RAILROAD CROSSING SIGN	FC ≺R
RAILROAD CROSSING SIGN RAILROAD CROSSING BELL.	≙
TREE	<u>.</u>
STUMP	Ä
BUIL DING	
IRON PIPE	_
STONE MONUMENT	•
MANHOLE INP.	0
BRICK INP.	
BRIDGE INP.) — (
CULVERT INP.	⊭= =1
CATCH BASIN INP.	· (22)
CURB & GUTTER CONST.	
SIDEWALK CONST.	
CANTTADY OFFIDE SELECT CONCE	
SANITARY, STURM SEWER CONST.	
WATERMAIN CONST.	
MANHOLE CONST.	©
CATCH BASIN CONST.	
HYDRANT CONST.	
CRUSS	₩
TEE	A
TARRING MACUINE OFFICE & MAINE	464
TAPPING MACHINE SLEEVE & VALVE	Φ4
BEND, ELBOV	خر
BEND, ELBOW INCREASER, DECREASER	μλ . «
BEND, ELBOW INCREASER, DECREASER CONCRETE	خر
BEND, ELBOW INCREASER, DECREASER	μλ . «
BEND, ELBOW INCREASER CUNCRETE SAND	μλ . «
BEND, ELBOW INCREASER, DECREASER CONCRETE SAND CRUSHED ROCK	+ - 4 - 4 - 1
BEND, ELBOW INCREASER, DECREASER CONCRETE SAND CRUSHED ROCK BITUMINOUS	**************************************
BEND, ELBOW INCREASER, DECREASER CONCRETE SAND CRUSHED ROCK BITUMINOUS CLEAR & GRUB TREE	
BEND, ELBOW INCREASER, DECREASER CONCRETE SAND CRUSHED ROCK BITUMINOUS CLEAR & GRUB TREE	
BEND, ELBOW INCREASER, DECREASER CUNCRETE SAND CRUSHED ROCK BITUMINOUS CLEAR & GRUB TREE SW, C&G, CONC BASE, DRWY-REMOVE: SW, C&G, CONC BASE, DRWY-REMOVE:	COUNDEMED SWY
BEND, ELBOW INCREASER, DECREASER CONCRETE SAND CRUSHED ROCK BITUMINOUS CLEAR & GRUB TREE	

NOTE: SECTION NUMBERS READ FROM SOUTH



ACRE AD IUST	41
ADJUST AGGREGATE	AD AG
APPROACH	AP
BENCH MARK	B. Bl
BITUMINOUS BRIDGE	В
BUILDING	BLD
CAST IRON PIPE	C.I. C.
CATCH BASIN CENTER LINE	C,
CENTER TO CENTER	C TO
CLAY SEWER PIPE CONCRETE	C.S.
CONSTRUCT	CDNS CDNS
CORNER	CØ.
CURRUGATED METAL PIPE CURRUGATED METAL PIPE ARCH	C.M. C.M.P
CRUSHED ROCK	CR. R
CURB & GUTTER	C &
DEFLECTION LEFT	D D
DEFLECTION RIGHT DEGREE OF CURVE	v
DELTA OR INTERSECTION ANGLE	_
DRIVE DRIVEWAY	DRW
DROP INLET	D
DUCTILE IRON PIPE	D.I.
EAST ELEVATION	E
EMBANKMENT	EM.
ENTRANCE	EŅ
EQUATION ESTIMATE	ES.
EXCAVATION	EX
EXPANSION ELOVATAGE	EX
FLOW LINE FOOT	F.i. F
FOUNDATION	FD'
FRAME FURNISH AND INSTALL	- F
GALLON	F. & GAI
GATEVALVE	G
GRATE HIGH WATER	GI H.V
HIGHWAY	HV
HDRIZONTAL .	HORI.
HYDRANT . INLET	HY. INI
INPLACE	INP
INSTALL	INS
INVERT IRON PIPE	IN\ L /
JUNCTION	
<i>LEFT</i>	JC L
LENGTH OF CURVE LINEAL	LI
LOW WATER	Z.i
MANHOLE	MI
MINIMUM MISCELLANEOUS	MII MISO
MONUMENT	MDI
NORTH	N.E
NORTH EAST NORTH WEST	/v.a
NUMBER	N
OUTLET PERFORATED	OUT! PERI
DOTAIT DE CHOVATHOE	P.C
POINT OF INTERSECTION	P.,
POINT OF INTERSECTION POINT OF TANGENCY POINT ON TANGENT	P.1 P.0.1
RADIUS, ROCK, RANGE	ŀ
RAILROAD	R.F
REINFORCED CONCRETE PIPE	REINF R.C.F
RETURN	RET
RIGHT	R
SANITARY SEWER	SA! SE!
SIDEWALK, SOUTH WEST	S. h
SOUTH SOUTH EAST	S.E
SPECIFICATION, SPECIAL	SPEC
STANDARD	STI
STATION STORM, STATE, STUCCO	STA S7
STREET, STONE, STEEL	ST
SUBDRAIN	SD,SUB
SURFACE TANGENT	SURF
TURNING POINT, TELEPHONE POLE	T.F
VARIABLE	VAR
VEHICULAR MEASURE VERTICAL	V.N VERI
VERTICAL CURVE	V.C
VETRIFIED WEST, WATER	VI7
newit nittell	

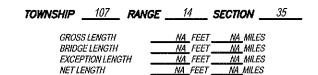
MINNESOTA DEPARTMENT OF TRANSPORTATION

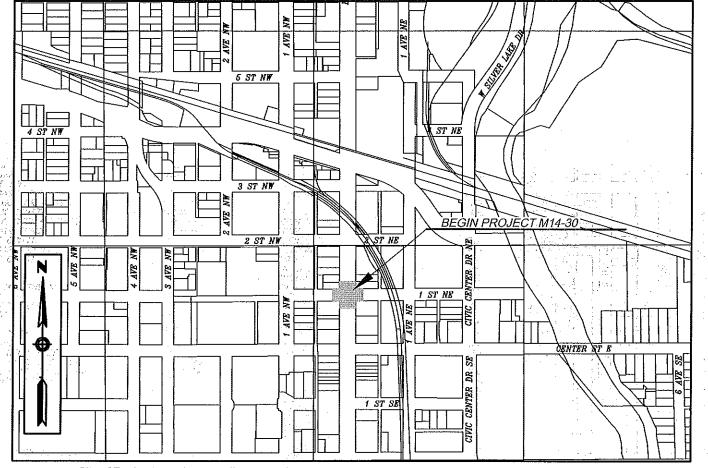


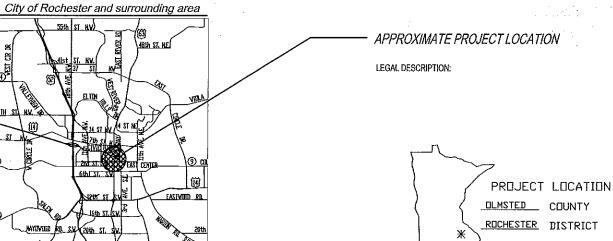
City of Rochester, Minnesota

Department Of Public Works

TRAFFIC SIGNAL SYSTEM AT NORTH BROADWAY AND 1ST STREET NORTH







PIREVILLE RILL

GOVERNING SPECIFICATIONS

State of Minnesota

State of Minnesota
The 2014 edition of the Minnesota Department of Transportatio
"Standard Specifications for Construction", and the 2014
edition of the "Material Lab Supplemental Specifications for
Construction" shall govern except as modified by special
provision.

All traffic control devices shall conform and be installed in accordance with the most recent edition of "Minnesota Manual on Uniform Traffic Control Devices" (MN MUTCD) and part VI, "Field Manual for Temporary Traffic Control Zone Layouts".

"City of Rochester Standard Specifications for Utility and Street Construction" 4/25/13

UTILITY QUALITY LEVEL

The subsurface utility Information in this plan is utility quality level D This quality level was determined according to the guidelines of CWASCE 38-2, entitled "Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data."

INDEX TO PLANS	
Sheet Title	Sht. No.
TITLE SHEET	1
ESTIMATED QUANTITIES	2
DETAILS	2-5
TABULATIONS	6
REMOVALS	. 7
GRADING	8
STRIPING	9
SIGNAL PLANS	10 - 12

This plan contains 13 Total sheets



City of Rochester, Minnesota Department Of Public Works

> 201 4th Street S.E. Room 108 - City Hall Rochester, MN 55904 Phone: (507) 328-2400 Fax: (507) 328-2401

Calvin Feine , Dastgn Techniklan Date

Calvin Feine , Dastgn Techniklan Date

Calvin | Calvin |

Russell Keim, Design Engineer: I hereby certify that this plan was prepared by me or under my direct supervision, and that I am a duly Licensed Professional Engineer under

pproved: Richard Freese, City of Rochester Engineer

Project No M14-30

J 6053

Sheet 1 of 13 Sheets

		STATEMENT OF ESTIN	IATED QUANTI	TIES			
NOTES	SPEC. REF. NUMBER	ITEM DESCRIPTION	UNIT	PARTICIPATING	NON- PARTICIPATING	STORM SEWER	TOTAL ESTIMATED QUNTITY
	1 STREET (350)						
	2021.501/00010	MOBILIZATION	LS	1.00			1.0
	2104.501/00022	REMOVE CURB AND GUTTER	LF	157.00			157.0
11	2531,501/02320	CONCRETE CURB & GUTTER DESIGN 8624	LF	158.00			158.0
	2563.601/00010	TRAFFIC CONTROL	LS	1.00			1.0
	2573.530/00010	STORM DRAIN INLET PROTECTION	EACH	2.00			2.0
	2582.603/61112	12" SOLID LINE WHITE-EPOXY (WR)	LF	349.00			349.0
	2 PED FACILITIES	(550)		I	II		
	2104.503/00021	REMOVE CONCRETE WALK	SF	1917.00			1917.0
	2521.501/00060	6" CONCRETE WALK	SF	1868.00			1868,0
	2531,618/00010	TRUNCATED DOMES	SF	96.00			96.0
	3 TRAFFIC (650)						
	2104.509/00155	REMOVE LIGHT FOUNDATION	EACH	4.00			4.0
	2104,523/00421	SALVAGE LUMINAIRE	EACH	4.00			4.0
	2565,511/00010	TRAFFIC CONTROL SIGNAL SYSTEM	SIGS	1,00			1.0

NOTES:

(1) INCLUDES TRANSITION CURB

	STANDARD DETAIL PLATES				
	CITY OF ROCHESTER				
NO.	DETAIL PLATE				
2-01 E	CONCRETE CURB & GUITER				
2-06 D	CURB & GUTTER REINFORCEMENT AT CATCH BASINS				
2-14 J	PEDESTRIAN CURB RAMP				
2-15 F	SIDEWALK DETAILS				
7-05 A	INLET PROTECTION				

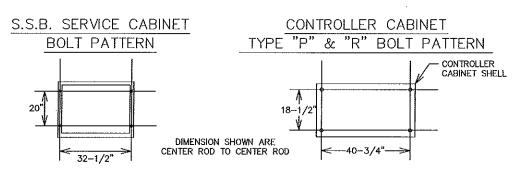
	THE FOLLOWING STANDARD PLATES, APPROVED BY THE EDERAL HIGHWAY ADMINISTRATION SHALL APPLY ON THIS PROJECT	S
	STATE OF MINNESOTA	
NO.	DETAIL PLATE	
8000I	Standard Barricades	
8106C	Equipment Pad B	
8110E	Traffic Signal Bracketing (Pole Mounted)	
8111E	Traffic Sigml Bracketing (Pedestal Mounted) (3 Sheets)	
8112G	Pedestal Foundation (Traffic Control Signals)	
8114A	P.V.C. Handhole/Pullbox (No Veholie Load) (2 Sheets)	
8117F	Precast Concrete Handhole (with Vehicle Load) (2 Sheets)	
8118D	Service Equipment & Pole Traffic Control Signals	
8119C	Ground Mounted Cabinet Foundation	
8120P	Pole Foundation (PAS5)	
	Pole and Mast Ann Luminaires and Traffic Lights Assembly (For All Pole Types) (2 Sheets)	
8126K	Pole Foundation (PA90 and PA100)	

was prepared by me or under my direct superv d Professional Engineer under the laws of the

Gity of Rochester, Minnesota 2014 Bross SE Prove (50) 282-260

ESTIMATED QUANTITIES AND DETAILS FOR TRAFFIC SIGNAL SYSTEM AT NORTH BROADWAY AND 1ST STREET NORTH

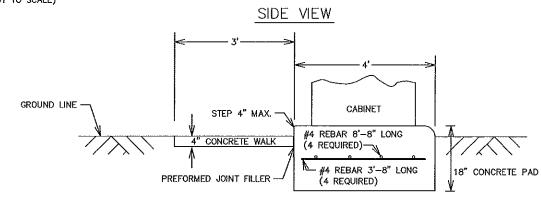
Project No. M14-30 J6053 Sheet 2 of 13 Sheets



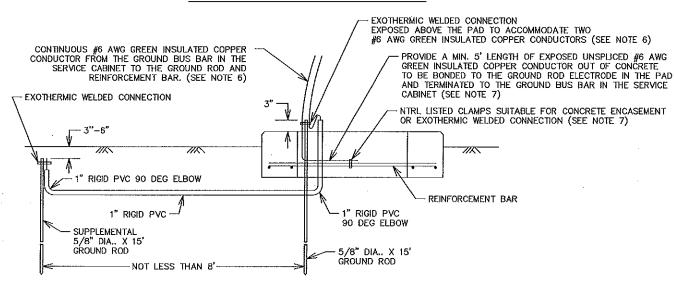
- NOTES
- THE ANCHOR RODS, NUTS, WASHERS AND RUBBER GASKET FOR.
 THE CONTROLLER CABINET SHALL BE FURNISHED BY MNDOT.
- THE OUTER EDGE OF THE ENTIRE EQUIPMENT PAD AND CONCRETE WALK SHALL BE BEVELED OR CHAMFERED IN A NEAT MANNER AS DIRECTED BY THE ENGINEER.
- THE TOP OF THE CONDUITS SHALL BE CAPPED UNTIL CABLES ARE PULLED IN.
- 4. CONDUIT SHALL PROJECT A MINIMUM OF 2" ABOVE THE CONCRETE AND SHALL BE LOCATED INSIDE THE CABINET WHERE DIRECTED BY THE ENGINEER, BUT SHALL NOT INTERFERE WITH THE CABINET FUNCTIONS (SUPPORTING MEMBERS, FTC.)
- CONCRETE MIX 3A32 OR EQUAL SHALL BE USED FOR THE 11, EQUIPMENT PAD AND SIDEWALK.
- 6. SUPPLY TWO 15 FOOT GROUND ROD ELECTRODES IN ACCORDANCE WITH 2545.3R. PROVIDE ONE GROUND ROD IN 12. THE EQUIPMENT PAD IN ACCORDANCE WITH 2545.3 F.3 AND THE OTHER OUTSIDE OF THE PAD WITH A MINIMUM OF 8 13. FEET OF SEPARATION BETWEEN ELECTRODES. BOND THE TWO GROUND RODS TOGETHER WITH ONE CONTINUOUS LENGTH UNSPLICED CONDUCTOR FROM THE OUTER MOST GROUND ROD TO THE GROUND BUS BAR IN THE CABINET. EXOTHERMICALLY WELD THE 6 AWG STRANDED GREEN INSULATED CONDUCTOR TO THE GROUND RODS. PLACE THE BONDING CONNECTION TO THE EQUIPMENT PAD GROUND ROD ABOVE THE CONCRETE. APPLY DE-OX COMPOUND TO THE GROUNDING CONNECTIONS AFTER FINAL ASSEMBLY.

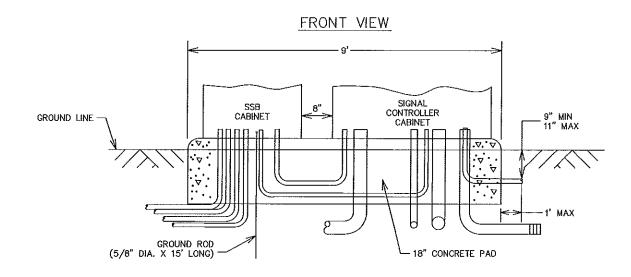
BOND A #6 AWG GREEN INSULATED GROUNDING CONDUCTOR TO THE REBAR CAGE PRIOR TO CONCRETE POURING OPERATIONS. ENSURE THE CONDUCTOR IS PLACED IN THE LOAD SIDE OF THE CABINET. TERMINATE THE GREEN INSULATED 6 AWG GROUND CONDUCTOR ON THE GROUND BUS IN THE SERVICE CABINET WITHOUT SPLICES.

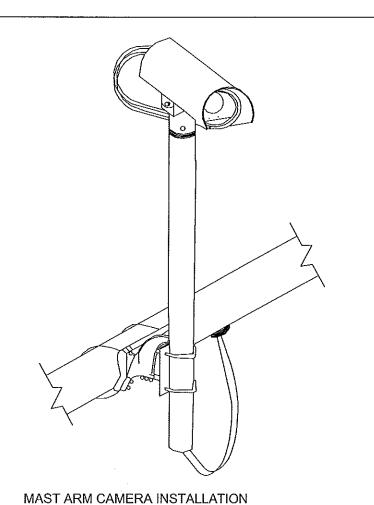
- . CONDUITS WITH BOTH ENDS TERMINATING WITHIN THE PAD SHALL NOT BE PLACED BELOW THE CONCRETE.
- THE EXACT LOCATION OF CONDUITS WITHIN THE PAD SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
- D. CORRECT PLACEMENT OF CONDUIT TO THE LEFT OF THE CABINET DIVIDER IS CRITICAL.
- ANCHOR RODS SHALL PROJECT A MINIMUM OF 3" ABOVE THE CONCRETE BUT SHALL NOT INTERFERE WITH THE CABINET FUNCTIONS (SUPPORTING MEMBERS, ETC.).
- CABINETS TO BE CENTERED (LEFT & RIGHT) ON THE PAD.
- BRUSH ON ANTI-SEIZE LUBRICANT MUST BE APPLIED TO ALL ANCHOR ROD THREADS PROTRUDING ABOVE THE CONCRETE PAD BEFORE THE CABINET IS SET.

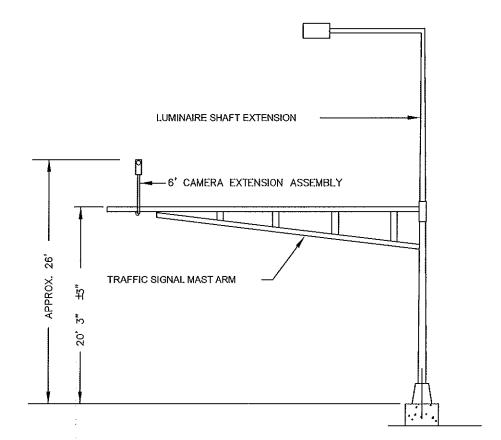


GROUNDING ELECTRODE SYSTEM

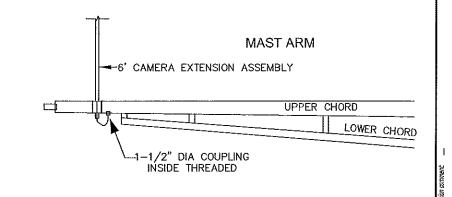




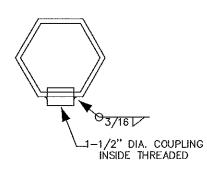




TYPICAL MAST ARM CAMERA MOUNTING DETAILS

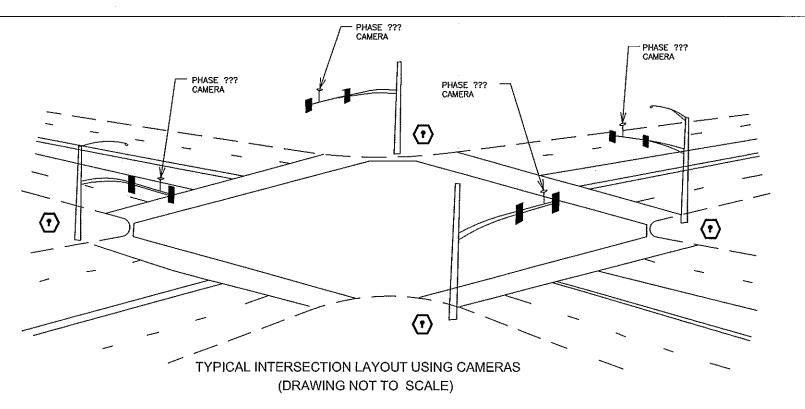


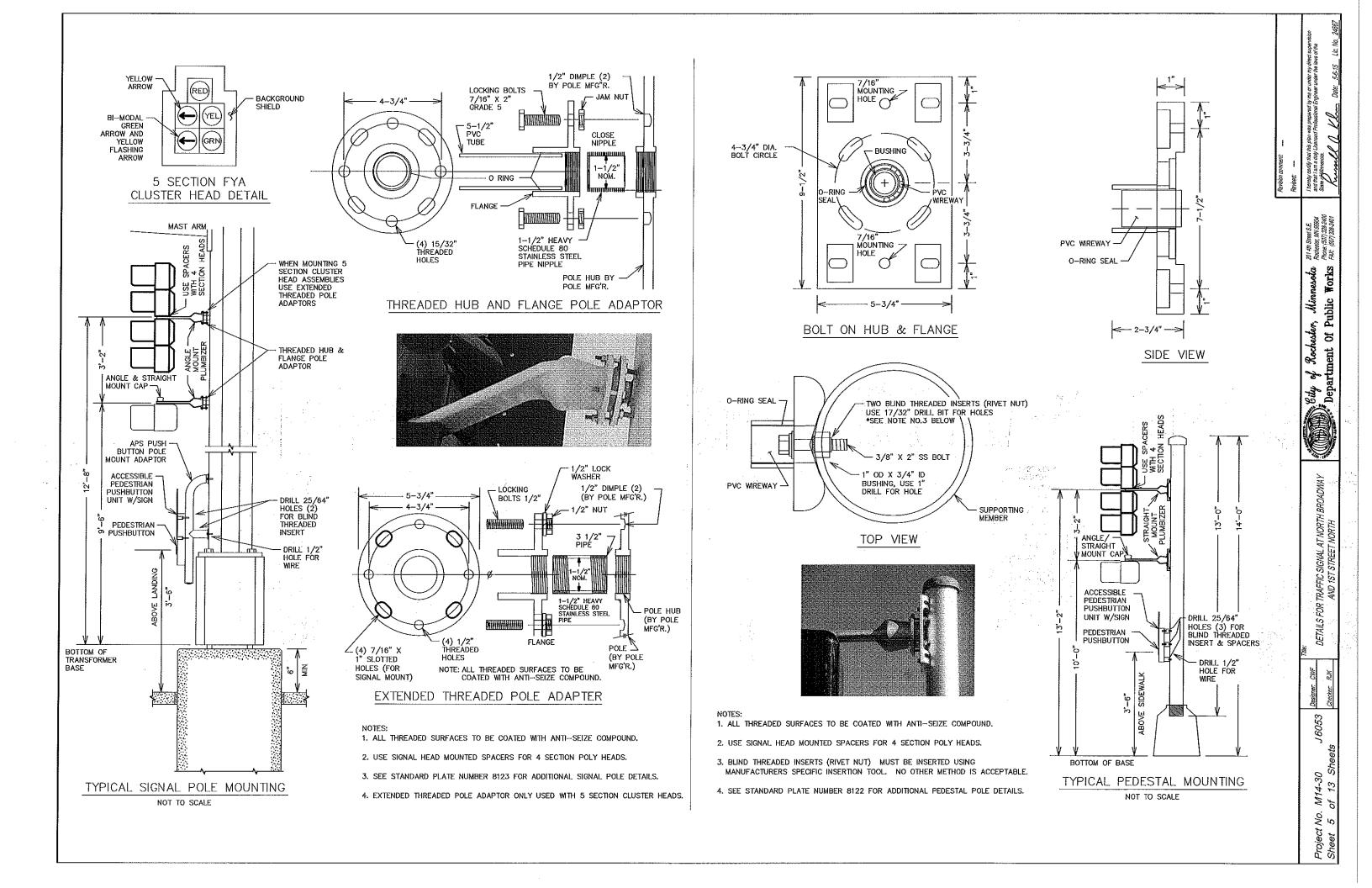
UPPER CHORD SECTION



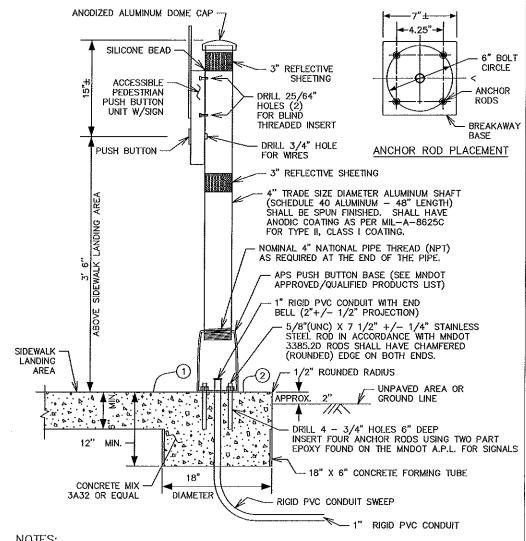
NOTES:

- 1) ALL CAMERA DETECTION EQUIPMENT SHALL BE FURNISHED BY CITY AND INSTALLED BY CONTRACTOR.
- 2) IT IS DESIRABLE FOR CABLES BETWEEN THE CAMERA AND THE TRAFFIC SIGNAL CONTROL CABINET TO BE CONTINUOUS, HOWEVER, A SPLICE (APPROVED FOR OUTDOOR USE) WILL BE ALLOWED IN THE TRANSFORMER BASE OF THE SIGNAL POLE.
- 3) CAMERA DETECTOR CABLES SHALL BE RUN THROUGHOUT INSIDE OF POLE AND MAST ARM OVER TO CAMERA (NO SPLICE).
- 4) CABLES FOR CAMERA OPERATION SHALL BE AS INDICATED IN THE SPECIAL PROVISIONS AND SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE MANUFACTURER OF THE VIDEO DETECTION SYSTEM USED.
- 5) WHERE THE CABLES ARE ROUTED THROUGH THE MAST ARM, PROVIDE BUSHINGS TO PROTECT THE CABLES.
- 6) THE 6--FOOT CAMERA MOUNTING EXTENSION ASSEMBLY SHALL CONSIST OF A MAST ARM MOUNTING BRACKET THAT IS CONSTRUCTED OF CAST ALUMINUM. THE MAST ARM MOUNTING BRACKET SHALL BE ATTACHED TO THE MAST ARM WITH STAINLESS STEEL STR
- 7) A 1 1/2" HALF COUPLING, 1 1/2" PIPE NIPPLE AND CONDUIT OUTLET BODY FOR CAMERA CABLES SHALL BE F&I ON THE UNDER SIDE OF MAST ARM SEE SIGNAL LAYOUT FOR LOCATION OF HUB.





APS PUSH BUTTON STATION



NOTES:

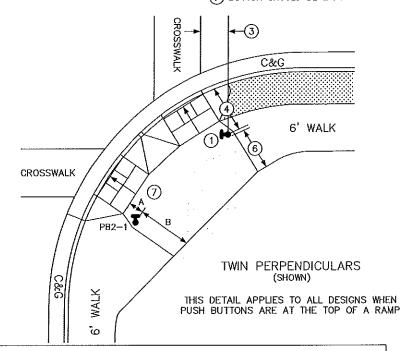
- PLACEMENT AND ORIENTATION OF THE PUSH BUTTON STATION IS CRITICAL. MOUNT THE BUTTON SO THAT THE FACE IS PARALLEL WITH THE ASSOCIATED CROSSWALK. SCREW IN POST TO A TIGHTENED POSITION BEFORE MOUNTING ACCESSIBLE PEDESTRIAN PUSH BUTTON UNIT TO THE POST.
- ORIENT ACCESS OPENING ON THE BREAKAWAY PEDESTAL DIRECTLY BELOW THE APS BUTTON.
- PLUMB THE PUSH BUTTON STATION WITH LEVELING SHIMS IN ACCORDANCE WITH STANDARD PLATE 8129.
- BLIND THREADED INSERTS (RIVET NUT) MUST BE INSERTED USING MANUFACTURERS SPECIFIC INSERTION TOOL. NO OTHER METHOD IS ACCEPTABLE.
- BLIND THREADED INSERTS SHALL BE ZINC PLATED STEEL WITH 1/4 20 UNC THREADS. INSERT SHALL BE SUITABLE FOR USE ON A MOUNTING SURFACE WALL THICKNESS OF .337". APPROVED BLIND THREADED INSERTS CAN BE FOUND ON THE MN/DOT QUALIFIED PRODUCTS LIST FOR SIGNALS.
- A.P.S. MOUNTING BOLTS SHALL BE 1/4 20 STAINLESS STEEL. APPLY BRUSH ON ANTI SEIZE COMPOUND TO BOLTS PRIOR TO ASSEMBLY.
- APPLY A BEAD OF 100% SILICONE SEALANT ALONG THE TOP OF THE PUSH BUTTON UNIT WHERE IT COMES IN CONTACT WITH THE 4" POST.
- -- THE REFLECTIVE SHEETING SHALL BE WHITE AT INTERSECTION CORNERS AND SHALL BE YELLOW WHEN USED IN CENTER MEDIANS. SEE MN/DOT SIGNING QUALIFIED PRODUCTS LIST (QPL) FOR
- ANTI-SEIZE COMPOUND MUST BE USED ON ALL THREADED BOLTS WHEN ASSEMBLING PEDESTRIAN PUSH BUTTON STATIONS.
- 1) THE PUSH BUTTON STATION FOUNDATION IS CONSTRUCTED AS PART OF THE SIDEWALK. INCREASE THE SIDEWALK THICKNESS TO 12" THICK (MIN.) TO PROVIDE FOR THE PUSH BUTTON STATION FOUNDATION.
- (2) ALL JOINTS SHALL BE A MINIMUM OF 9" FROM THE CENTER OF THE PUSH BUTTON FOUNDATION.

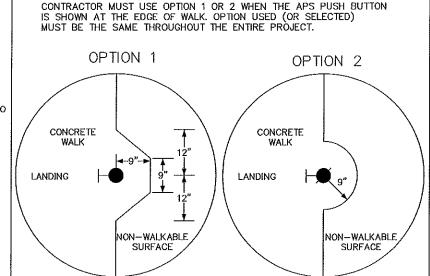
TYPICAL APS PEDESTRIAN PUSH BUTTON LOCATION

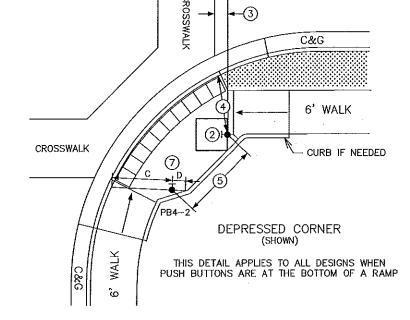
THIS IS A GENERAL DETAIL INTENDED TO SHOW THE REQUIREMENTS OF APS PUSH BUTTON LOCATION. FOR PROJECT SPECIFIC INFORMATION REGARDING PEDESTRIAN RAMP LAYOUT AND PUSH BUTTON LOCATIONS, SEE THE PLAN.

SUPPLEMENTAL GUIDANCE FOR CONSTRUCTING COMPLIANT APS PUSH BUTTONS:

- (1) THE FACE OF THE BUTTON SHALL BE PARALLEL WITH THE OUTSIDE EDGE OF CROSSWALK.
- (2) A MINIMUM 4 FT X 4 FT LANDING AREA SHALL BE PROVIDED ADJACENT TO EACH BUTTON, WITH A 2 PERCENT MAXIMUM SLOPE IN ALL DIRECTIONS.
- (3) BUTTONS SHALL BE WITHIN 5 FT OF THE OUTSIDE EDGE OF THE CROSSWALK.
- 4 BUTTONS SHALL BE BETWEEN 1.5 FT AND 10 FT FROM THE BACK OF CURB OR EDGE OF ROADWAY, MEASURED IN THE DIRECTION OF TRAVEL. STANDALONE PUSH BUTTON STATIONS SHOULD BE 4' MINIMUM FROM THE BACK OF CURB TO AVOID KNOCKDOWNS.
- (5) BUTTONS SHALL BE AT LEAST 10 FT APART.
- 6 PROVIDE A MAINTENANCE ACCESS ROUTE (MAR) WHEREVER POSSIBLE FOR SNOW REMOVAL PURPOSES. A MAR REQUIRES A 6 FT MINIMUM CLEAR DISTANCE BETWEEN A PUSH BUTTON AND ANY OBSTRUCTIONS, INCLUDING BUILDINGS, V-CURB, ELECTRICAL FOUNDATIONS, SIGNAL CABINETS, OR ANOTHER PUSH BUTTON.
- (7) BUTTON SHOULD BE 2 FT MINIMUM FROM RAMP GRADE BREAK AND BACK OF WALK.







SIGNAL (CONTROL	POINTS	DISTANCE TO	DISTANCE TO BACK OF
SIGNAL NO.	Х	Y	LANDING (FT)	LANDING (FT)
PB2-1			Α	В
PB42	-	-	С	D

- A DISTANCE MEASURED FROM THE PUSH BUTTON TO THE FRONT OF LANDING/TOP OF RAMP
- B CLEAR DISTANCE MEASURED FROM THE PUSH BUTTON TO THE BACK OF LANDING/EDGE OF WALK
- C CLEAR DISTANCE MEASURED FROM THE PUSH BUTTON TO THE OUTSIDE EDGE OF DOMES IN THE DIRECTION OF TRAVEL
- CLEAR DISTANCE FROM THE PUSH BUTTON TO THE BACK OF LANDING MEASURED IN THE OPPOSITE DIRECTION OF TRAVEL

		EXISTING	POLES		
STATION LOCATION	INPLACE UTILITY	LEAVE AS IS	SALVAGE LUMINAIRE	REMOVE LIGHT FOUNDATION	NOTES
NW QUADRENT N BDWY & 1ST ST	DECO LIGHT	X			
NWQUADRENT N BDWY & 1ST ST	STREET LIGHT		X	X	'
NE QUADRENT N BDWY & 1ST ST	STREET LIGHT		Х	X	
SE QUADRENT N BDWY & 1ST ST	STREET LIGHT		Х	Х	
SE QUADRENT N BDWY & 1ST ST	DECO LIGHT	X			
SWQUADRENT N BDWY & 1ST ST	DECO LIGHT	Х			
SWQUADRENT N BDWY & 1ST ST	STREET LIGHT		Х	X	

THE "LEAVE AS IS" AND "RELOCATE" COLUMNS ARE BASED UPON THE BEST INFORMATION AVAILABLE AND MAY NOT REFLECT THE ACTUAL EFFECTS ON THE UTILITIES CONSTRUCTION. ACTUAL DETERMINATION WILL BE MADE IN THE FIELD DURING CONSTRUCTION.

UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS, THE CONTRATOR SHALL DETERMINE THE ACTUAL LOCATION OF ALL UTILITIES IN THE FIELD.

THE CONTRACTOR WILL BE RESPONSIBLE FOR REMOVING CONCRETE FOUNDATIONS AND MODIFYING ANY THROUGH CONDUITS TO

CONSTRUCT CONC. V	VALK, CUF	RB & GU1	TER
LOCATION	B624 C&G	6" WALK	TRUNCATED DOME
	(LIN FT)	(SQ FT)	(SQFT)
NW QUADRENT N BDWY & 1ST ST	39.38	547.22	16.00
NE QUADRENT N BDWY & 1ST ST	39.34	411.82	32.00
SE QUADRENT N BDWY & 1ST ST	39.47	395.36	32.00
SW QUADRENT N BDWY & 1ST ST	39.12	513.33	16.00
TOTALS	158	1868	96

PAVEMENT MARKIN	IGS
LOCATION	12" SOLID LINE WHITE
	(LIN FT)
NW QUADRENT N BDWY & 1ST ST	70,2
NE QUADRENT N BDWY & 1ST ST	103.2
SE QUADRENT N BDWY & 1ST ST	101.0
SW QUADRENT N BDWY & 1ST ST	73.6
TOTALS	349

REMOVE CONC. WALK, CURB & GUTTER			
LOCATION	C&G	WALK	
	(LIN FT)	(SQ YD)	
NW QUADRENT N BDWY & 1ST ST	39.1	60.2	
NE QUADRENT N BDWY & 1ST ST	39.2	45.1	
SE QUADRENT N BDWY & 1ST ST	39.4	43.5	
SW QUADRENT N BDWY & 1ST ST	39.1	63.9	
TOTALS	157	213	

EROSION CO	ONTROL	
LOCATION	INLET PROTECTION TYPE C	EROSION CONTROL SUPERVISOR
	EACH	LUMP SUM
SE QUADRENT N BDWY & 1ST ST	1.00	
SW QUADRENT N BDWY & 1ST ST	1.00	
	2	1

Eity of Rochester, Minnesota 2014 Street Steel St.
Department Of Public Works Fix 601728-240

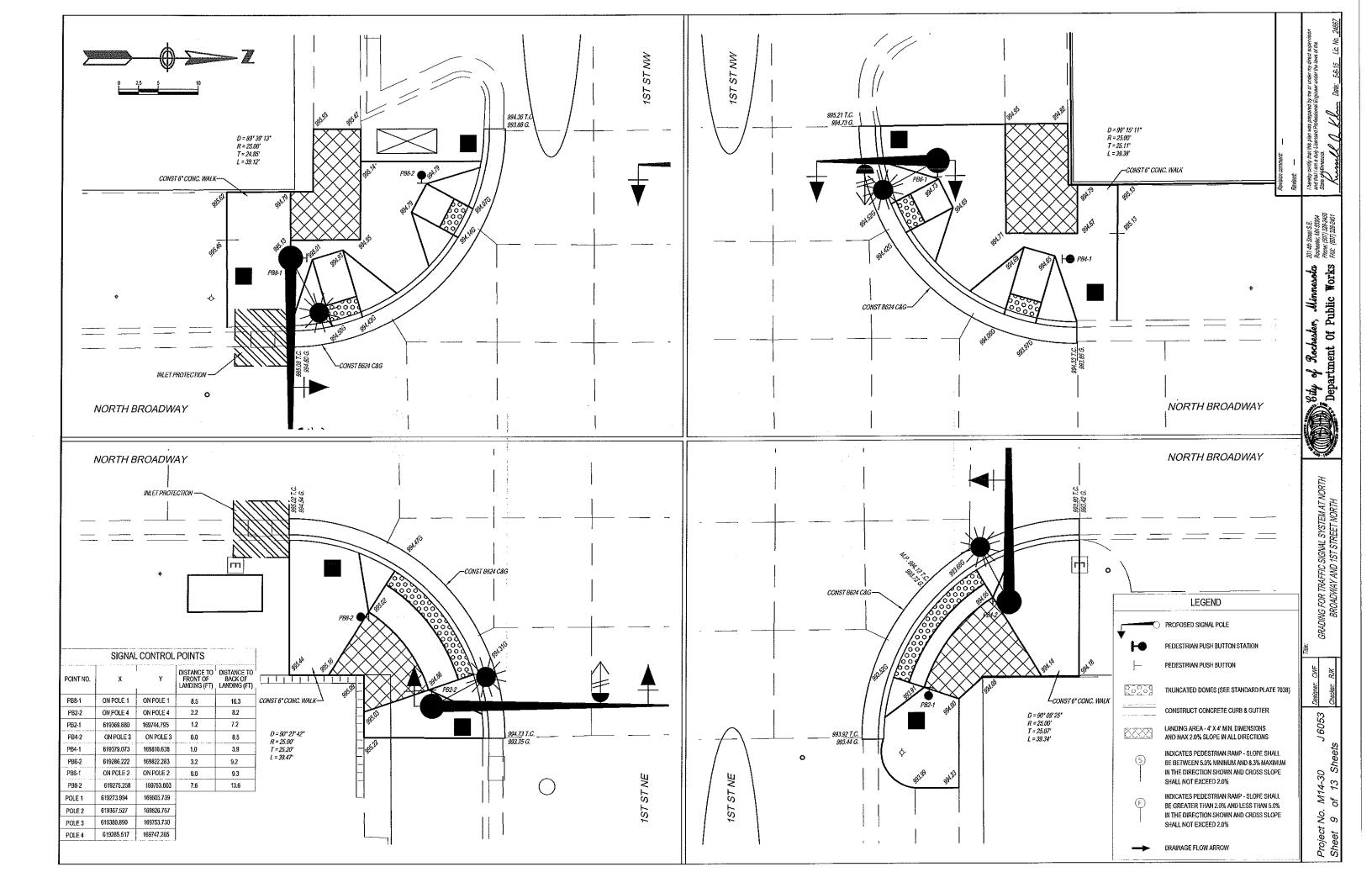
TABULATIONS FOR TRAFFIC SIGNAL SYSTEMAT NORTH BROADWAY AND 1ST STREET NORTH

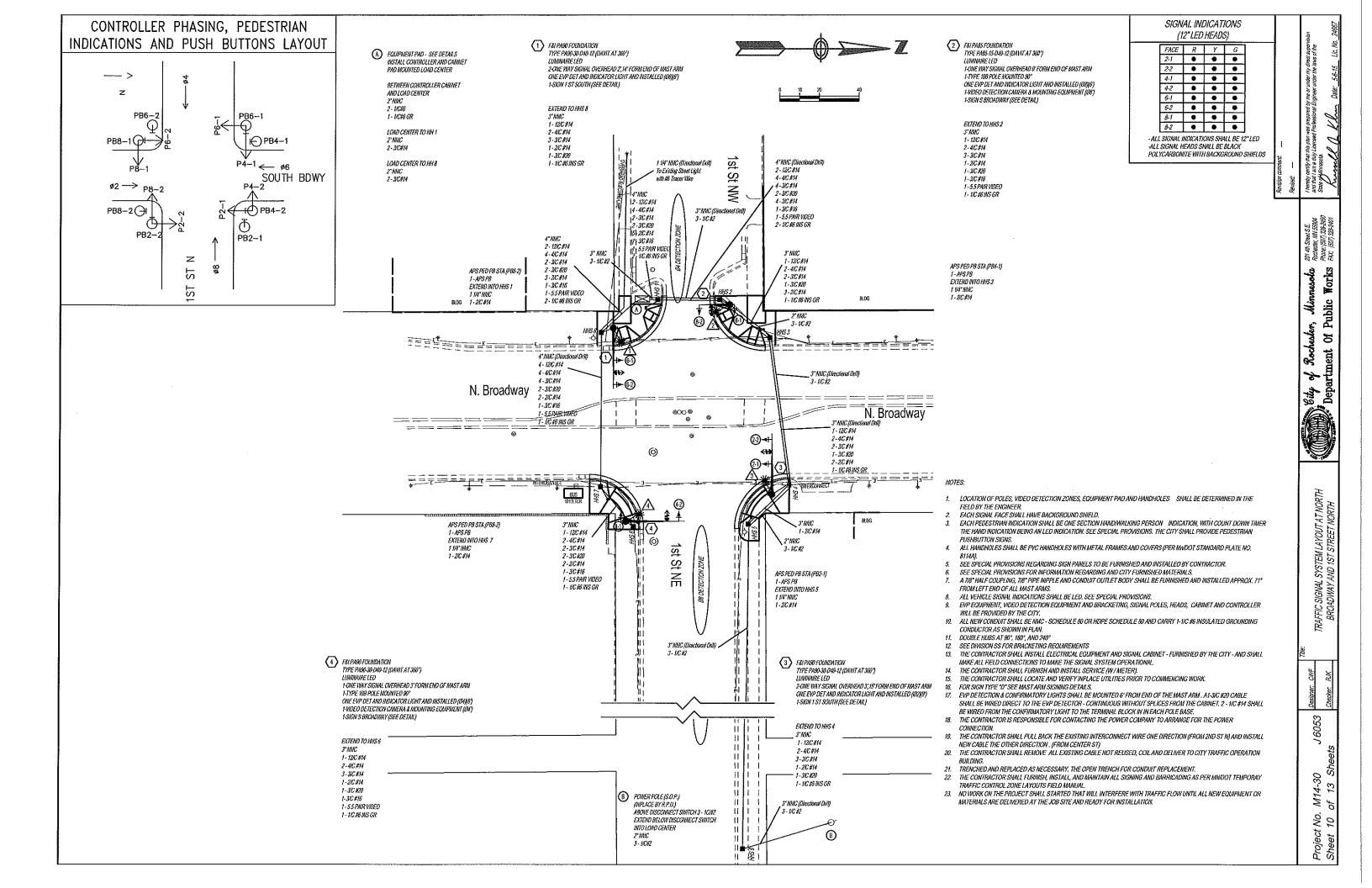
1st St NW -REMOVE STREET LIGHT POLE FOUNDATION SALVAGE LUMINAIRE REMOVE STREET LIGHT FOUNDATION SALVAGE LUMINAIRE N. Broadway N. Broadway REMOVE STREET LIGHT POLE FOUNDATION SALVAGE LUNINAIRE F(g) 1st St NE REMOVE STREET LIGHT FOUNDATION-SALVAGE LUMINAIRE CONCRETE REMOVAL

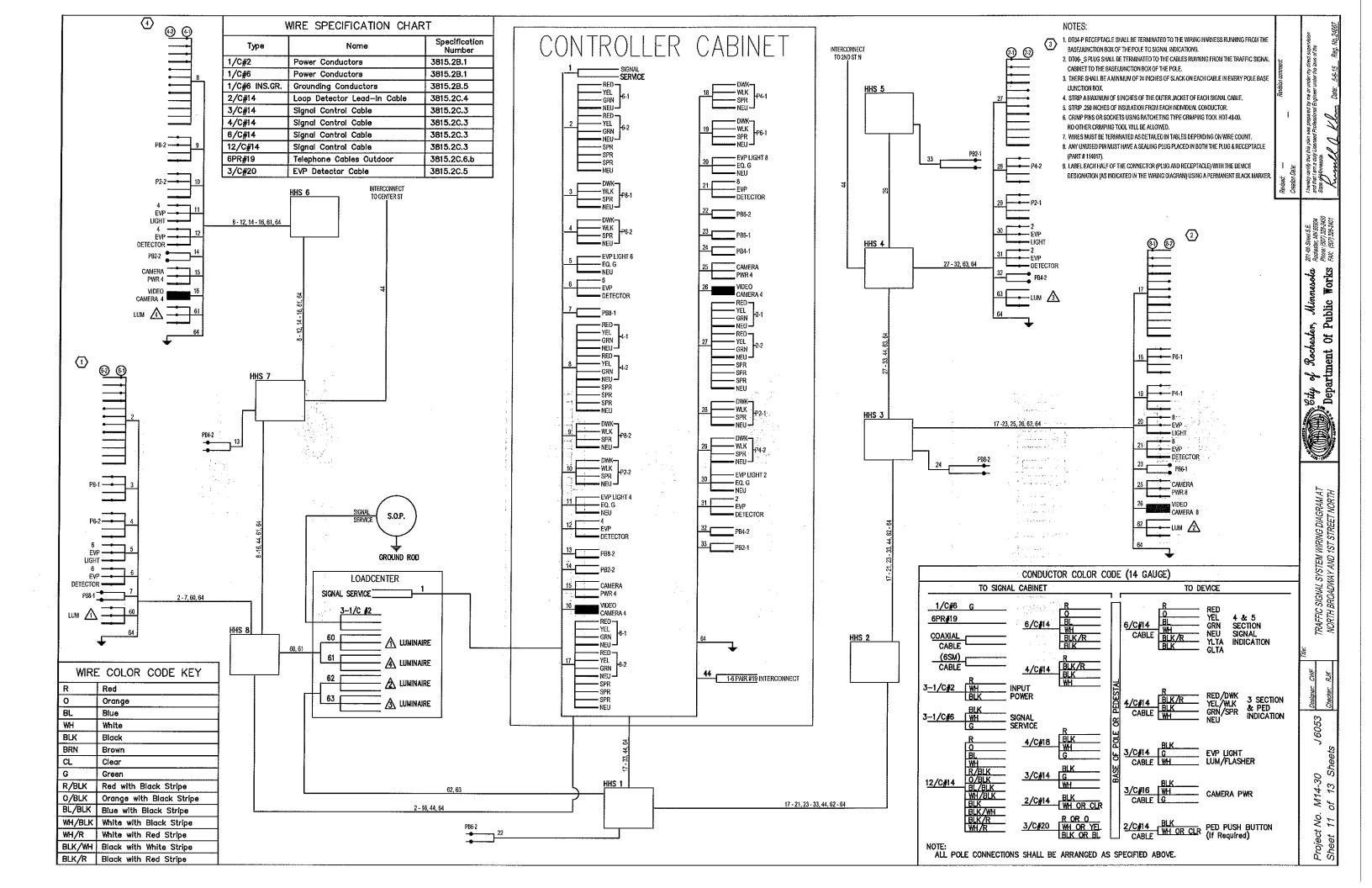
this plan was prepared by me or under my direct superv Licensed Professional Engineer under the laws of the Gity of Rochester, Minnesola 20140 Speed SE.
Department Of Public Works 627 328-348

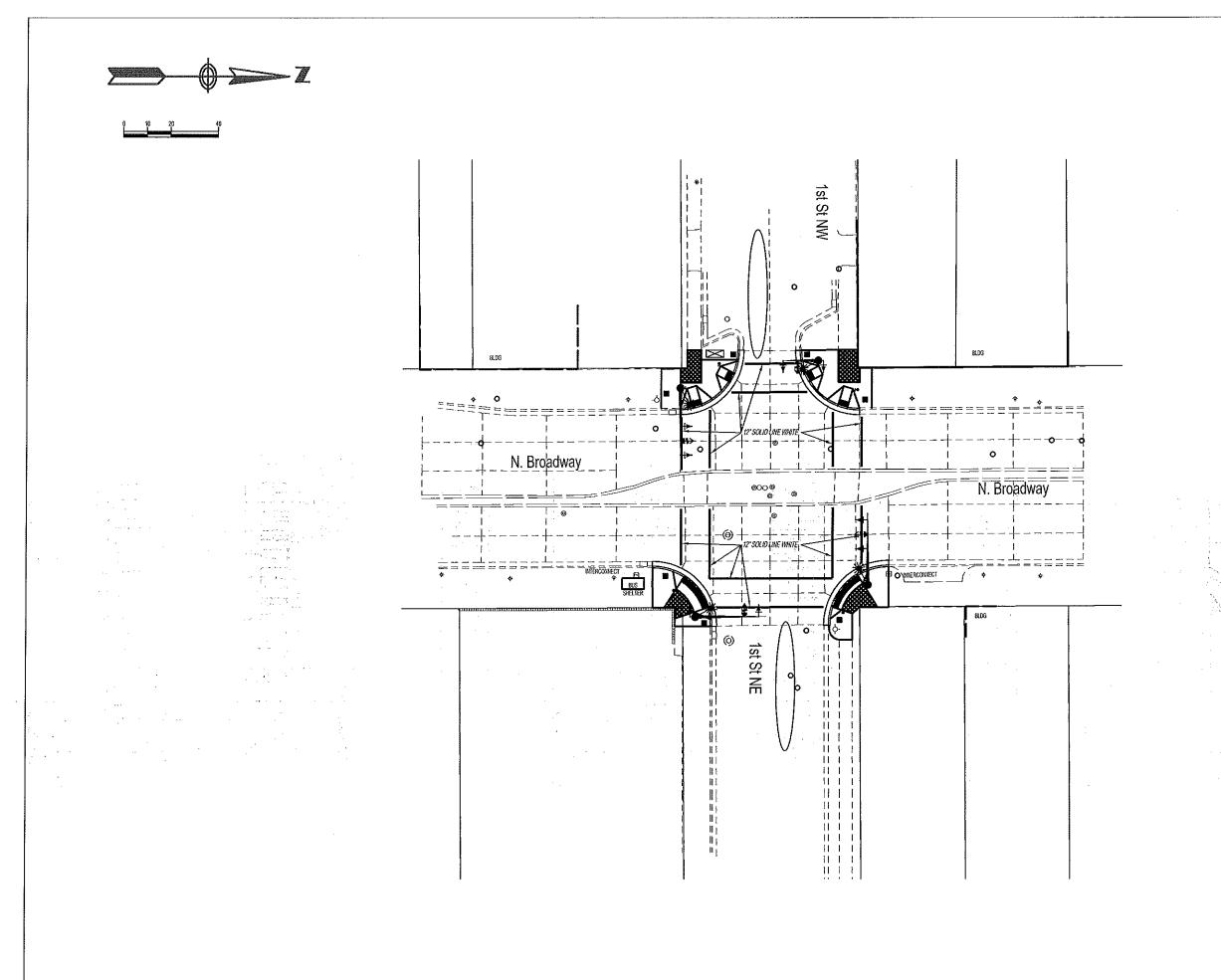
Project No. M14-30 J6053 Sheet 8 of 13 Sheets

REMOVALS FOR TRAFFIC SIGNAL SYSTEM AT NORTH BROADWAY AND 1ST STREET NORTH









Gity of Rochester, Minnesota 2014 Street SE.
Department of Public Works Fix (20120-240)

petify that this plan was prepared by me or under my direct supervision am a city Liconsed Professional Engineer under the laws of the

STRIPING AT NORTH BROADWAY AND 1ST STREET NORTH

Project No. M14-30 J6053 Sheet 12 of 13 Sheets

	··········						
SIGNS - F & I							
SIGN PANEL	SIGN TYPE	a (FT)	b (FT)	SIZE (in.)	NO. REQ.	SQ. FT. PER SIGN	POLE NO.
1st St N	D		15	72 x 18	1	8.3	1
1st St N	D		16	72 x 18	1	8.3	3
1st St N	R	2		30 x 36	1	7.5	2
1st St N	R	5		30 x 36	1	7.5	4
N Broadway	D		7	84 x 18	1	9.0	2
N Broadway	D		9	84 x 18	1	9.0	4

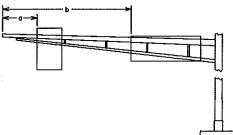
SPECIFIC NOTE:

(1) SPACING BETWEEN STIFFENERS SHALL NOT EXCEED 36 INCHES AND SHALL BE UNIFORMLY SPACED. SEE STANDARD SIGNS MANUAL, PAGE 105A (REVISION DATE 7/06/07) FOR BRACKET SPACING REQUIREMENTS.

GENERAL NOTES:

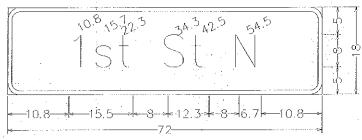
- 1. CORNERS OF STANDARD SIGN PANELS WITH MARGINS SHALL BE TRIMMED.
- 2. TYPE D SIGN PANELS EXTENDING BEYOND THE BORDER SHALL NOT BE TRIMMED.
- 3. FOR STRUCTURAL DETAILS 0F MAST ARM MOUNTED SIGNS SEE STANDARD SIGNS MANUAL, PAGE 105A. 4. FOR TYPE "D" STRINGER AND PANEL JOINT DETAILS SEE STANDARD SIGNS MANUAL, PAGE 105.
- 5. THE MAST ARM MOUNTED SIGNS ARE INCIDENTAL TO THE SIGNAL SYSTEM PAY ITEM.

MAST ARM SIGN LOCATION

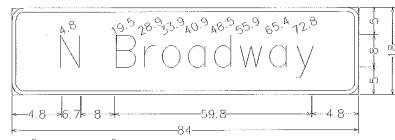




R3-5R 30" x 36"



3.0" Radius, 1.0" Border, White on Green; [16th St S] E Mod;



3.0" Radius, 1.0" Border, White on Green; [S Broadway] E Mod;